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# **ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION**

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02/05/2016 EP-W-13-030

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 10 LABORATORY

7411 Beach Dr. East Port Orchard, Washington 98366

Statement of Work - Task Order 09 ESAT Contract EP-W-13-030 Period of Performance: 02/15/2016 - 09/04/16

**EPA Task Order Contracting** 

Dana Walker

Officer's Representative

(TOCOR):

**EPA Alternate TOCOR:** 

Gerald Dodo

**EPA Task Monitor:** 

David L. Berry

### Fluidized Bed Asbestos Segregator Evaluation

#### **Project Background**

The hazard posed by soils containing certain fibrous minerals, such as asbestos or erionite, depends on the amount of these minerals that can be suspended from the soil when it is disturbed. EPA has developed a method using a fluidized bed asbestos segregator (FBAS) for determining concentration of mineral fibers that can become airborne if the soil is disturbed. The FBAS utilizes air elutriation to separate fibrous mineral structures from heavier matrix particles and deposits them onto a filter that is analyzed by appropriate microscopic techniques such as transmission electron microscopy (TEM).

Previous research [Januch et al, 2013] has demonstrated there is an approximate linear relationship between the concentration of asbestos in performance evaluation standards (as mass percent) and the mean concentration estimated by TEM analysis following preparation by FBAS, expressed as asbestos structures captured on a filter per gram of test material. Method detection limits range from 0.002% to 0.005% by weight. The research also shows however, that recovery of asbestos fibers on a weight percent basis tends to be low when processing samples through the FBAS.

The FBAS air elutriation process maybe applicable to other soil borne mineral fibers such as erionite. Erionite is a fibrous aluminosilicate mineral known to occur in several locations in the western United States. Erionite, like asbestos, is considered to be a

carcinogen and has been implicated in a mesothelioma endemic in Turkey. Recently, EPA has been involved in site assessments in which the amount of erionite in soil need to be determined.

Traditional site assessment has involved multiple sampling and analytical techniques. EPA has relied in the past on the California Air Resources Board (CARB) method 435 for analysis of bulk soil samples for asbestos. It is an optical microscopy method with a minimum detection limit for asbestos of 0.25% based on point counting. Another method recently developed by ASTM is the Standard Test Method for Determination of Asbestos in Soil; D7521-13 also has a detection limit of 0.25% by weight but has optional procedures involving TEM analysis allow for a detection limit of 0.1 %. Comparison data on analytical sensitivity and reproducibility between these analytical methods and the FBAS method will be useful for EPA in further evaluation of options for site assessments.

## **Purpose**

The purpose of this proposed task order (TO) is to provide technical and logistical support for completion of the FBAS recovery study. EPA needs additional data to evaluate whether asbestos recovery can be improved using modified instrument components and procedures.

#### **Statement of Work**

The contractor shall procure TEM analytical services, data review and validation services. The technical representative will determine the specifications for the services based on the data quality objectives in the quality assurance project plans (OAPP).

#### Task Order Management

The Contractor shall track the status of tasks and labor hours and costs for this TO and provide the TOCOR with monthly reports of the above-referenced data. The initial report shall be in a format proposed by the Contractor. EPA will review the initial report and specify changes for subsequent reports through the issuance of a TDF.

ESAT management shall meet with the TOCOR, Task Monitor(s), and other designated EPA representatives on a monthly basis or as needed, at agreed-upon times, to update EPA on the status of tasks and schedules for their completion and to address relevant administrative and technical issues.

The Contractor shall submit all deliverables required under this TO through a transmittal slip and cover letter identifying each document submitted. Each final deliverable submitted to the TOCOR or Task Monitor shall be accompanied by an "Approval Tracking Form" in a format approved by EPA. The Contractor shall also maintain a hard copy and computer file of each deliverable submitted under this TO.

The Contractor shall immediately notify the TOCOR and Task Monitor(s) as soon as it appears that schedules for the completion of any task may not be met. This notification shall be submitted via e-mail. The Contractor shall also notify the COR immediately upon learning of anything that may affect performance under this TO.

# FBAS Recovery Study

To help improve FBAS recovery, modifications in FBAS design and sampling conditions will be evaluated. A prototype glass vessel with inner slope of the lower conical section increased from 45 degrees to 60 degrees will be tested to determine if more fibers are detected due to increased entrainment of particles that adhere to the lower inner surface. In addition, a static arresting device and variations in air humidity, vibration velocity, and airflow rate will be employed to eliminate or at least reduce static conditions that may cause fibers to adhere to the inner surfaces of the glass vessel.

#### **Deliverables**

### Task 1- Procure TEM analytical services

a. Contractor will arrange for analytical support at a laboratory capable of conducting TEM analysis of air samples by method ISO 10312 or 13794.

### Analysis will be required for up to 4 samples in FY16.

- b. The contract laboratory will meet the specifications provided by EPA to the contractor in the QAPP and will be accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
- c. Deliver data package to the technical representative at the EPA Region 10 Laboratory.

#### Task 2 - Data review and validation

- a. Contractor will arrange for qualified expert to verify and validate the analytical data generated for this study. It will consist of a data package comprised of bench sheets, TEM images, energy dispersive X-ray analysis spectra, diffraction images, and QA/QC documentation for up to 37 samples.
- b. A narrative report will be provided to the technical representative describing the results of data verification and validation.

# **Region 10 Laboratory Documentation**

The Contractor shall comply with the most current version of the R10LAB QAM and SOPs relevant to this TO. The current versions of these documents can be found on the R10LAB computer network drive G:\.

The Contractor shall ensure that the most current documentation versions are being used.

#### **ATTACHMENT I**

The following is a summary list of the documents the Contractor shall deliver to the Contracting Officer Representative for each data package delivered under Task Matrixes. The exact data package documents will be dependent on the analytical method and/or SOP (see individual TDFs for any additional requirements).

- 1. Approval Tracking Form.
- 2. Cover page with project narrative.
- 3. Completed peer review forms.
- 4. TDF.
- 5. Sample results (multi-analyte reports/data sheets) with calculated concentrations of each analyte, reporting limits, header information and qualifiers.
- 6. Quality control sample results, quality control parameters and control charts, if applicable.
- 7. All Raw data.
- 8. Project folder containing the laboratory support request, chain of custody, sample preparation and standards documentation.

#### **Technology Transfer**

The Contractor shall provide information to EPA personnel for the purpose of transferring knowledge of a specific analytical or QA technique or technology obtained in performing work under the ESAT contract. The TOCOR will assign Technology Transfer activities through the issuance of a TDF.

AMENDMENT OF SOLICITATION/MODIF	CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES				
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STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

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